From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING SUBMISSION OR TRANSMITTAL OF PRIORITY DOCUMENT

(PCT Administrative Instructions, Section 411)

To:

OY JALO ANT-WUORINEN AB
Iso Roobertinkatu 4-6 ASAAPUNUT
FIN-00120 Helsinki
Finland

74 09. 2003

Date of mailing (day/month/year) 16 September 2003 (16.09.03)	Oy JALO ANT-WUORINEN Ab		
Applicant's or agent's file reference 39909	IMPORTANT NOTIFICATION		
International application No. PCT/FI03/00528	International filing date (day/month/year) 30 June 2003 (30.06.03)		
International publication date (day/month/year) Not yet published	Priority date (day/month/year) 28 June 2002 (28.06.02)		
Applicant			
BIOTIE THERAPIES OYJ et al			

- 1. The applicant is hereby notified of the date of receipt (except where the letters "NR" appear in the right-hand column) by the International Bureau of the priority document(s) relating to the earlier application(s) indicated below. Unless otherwise indicated by an asterisk appearing next to a date of receipt, or by the letters "NR", in the right-hand column, the priority document concerned was submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b).
- 2. This updates and replaces any previously issued notification concerning submission or transmittal of priority documents.
- 3. An asterisk(*) appearing next to a date of receipt, in the right-hand column, denotes a priority document submitted or transmitted to the International Bureau but not in compliance with Rule 17.1(a) or (b). In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.
- 4. The letters "NR" appearing in the right-hand column denote a priority document which was not received by the International Bureau or which the applicant did not request the receiving Office to prepare and transmit to the International Bureau, as provided by Rule 17.1(a) or (b), respectively. In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.

Priority date	Priority application No.	Country or regional Office or PCT receiving Office	Date of receipt of priority document
28 June 2002 (28.06.02)	20021275	FI	10 Sept 2003 (10.09.03)
14 Apri 2003 (14.04.03)	20030564	FI	10 Sept 2003 (10.09.03)

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Florian REAL

Telephone No. (41-22) 338 9772

Facsimile No. (41-22) 338.87.20

TENT COOPERATION TREAT

	From the INTERNATIONAL BU	JREAU
PCT	То:	
NOTIFICATION OF THE RECORDING OF A CHANGE (PCT Rule 92bis.1 and Administrative Instructions, Section 422) Date of mailing (day/month/year)	KOLSTER OY AB Iso Roobertinkatu 23 P.O. Box 148 FIN-00121 Helsinki Finland	·
02 April 2004 (02.04.2004)		
Applicant's or agent's file reference 39909	IMPORTANT NOTII	FICATION
International application No. PCT/FI2003/000528	International filing date (day/month/ye 30 June 2003 (30.06.2003)	ar)
The following indications appeared on record concerning: The applicant the inventor	the agent the commo	n representative
Name and Address BIOTIE THERAPIES OYJ Tykistökatu 6 FIN-20520 Turku Finland	State of Nationality FI Telephone No. Facsimile No.	State of Residence FI
	Teleprinter No.	
2. The International Bureau hereby notifies the applicant that the the person X the name the add		oncerning: the residence
Name and Address BIOTIE THERAPIES CORPORATION Tykistökatu 6 FIN-20520 Turku	State of Nationality FI Telephone No.	State of Residence FI
Finland	Facsimile No.	,
	Teleprinter No.	1
3. Further observations, if necessary:		
4. A copy of this notification has been sent to:		
X the receiving Office	the designated Offices of	concerned
the International Searching Authority	X the elected Offices cond	
the International Preliminary Examining Authority	other:	
	Aught sine deffine	
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Ana MILLIQU	ET-ROSLIK
Facsimile No. (41-22) 338.87.20	Telephone No. (41-22) 338 9613	

PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

To:

OY JALO ANT-WUORINEN AB Iso Roobertinkatu 4-6 A

FIN-00120 Helsinki FINLANDE SAAPUNUT

U 2. 02. 2004

Dy JALO ANT-WUDRINEN Ab

Date of mailing (day/month/year)
08 January 2004 (08.01.2004)

Applicant's or agent's file reference 39909

IMPORTANT NOTICE

International application No. PCT/FI2003/000528

International filing date (day/month/year) 30 June 2003 (30.06.2003)

Priority date (day/month/year)
28 June 2002 (28.06.2002)

Applicant

BIOTIE THERAPIES OYJ et al

1. Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this notice:

AU, AZ, BY, CH, CN, CO, DE, DZ, EP, HU, JP, KG, KP, KR, MD, MK, MZ, RU, TM, US

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:

AE, AG, AL, AM, AP, AT, BA, BB, BG, BR, BZ, CA, CR, CU, CZ, DK, DM, EA, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, ID, IL, IN, IS, KE, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MG, MN, MW, MX, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, SC, SD, SE, SG, SK, SL, SY, TJ, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW

The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).

- Enclosed with this notice is a copy of the international application as published by the International Bureau on 08 January 2004 (08.01.2004) under No. WO 2004/002495
- 4. TIME LIMITS for filing a demand for international preliminary examination and for entry into the national phase

The applicable time limit for entering the national phase will, subject to what is said in the following paragraph, be 30 MONTHS from the priority date, not only in respect of any elected Office if a demand for international preliminary examination is filed before the expiration of 19 months from the priority date, but also in respect of any designated Office, in the absence of filing of such demand, where Article 22(1) as modified with effect from 1 April 2002 applies in respect of that designated Office. For further details, see *PCT Gazette* No. 44/2001 of 1 November 2001, pages 19926, 19932 and 19934, as well as the *PCT Newsletter*, October and November 2001 and February 2002 issues.

In practice, time limits other than the 30-month time limit will continue to apply, for various periods of time, in respect of certain designated or elected Offices. For regular updates on the applicable time limits (20, 21, 30 or 31 months, or other time limit), Office by Office, refer to the PCT Gazette, the PCT Newsletter and the PCT Applicant's Guide, Volume II, National Chapters, all available from WIPO's Internet site, at http://www.wipo.int/pct/en/index.html.

For filing a demand for international preliminary examination, see the PCT Applicant's Guide, Volume I/A, Chapter IX. Only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination (at present, all PCT Contracting States are bound by Chapter II).

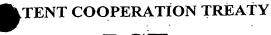
It is the applicant's sole responsibility to monitor all these time limits.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

Gijsbertus Beijer - Carlos Roy

Telephone No.(41-22) 338.91.11

Facsimile No.(41-22) 740.14.35

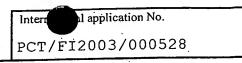




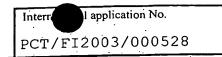
INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTI	ON See Form P	CT/IPEA/416
39909	International filing date (a	lay/month/year)	Priority date (day/month/year)
International application No.		ay/monanayeaay	28.06.2002
PCT/FI2003/000528	30.06.2003	· · · · · ·	20.00.2002
International Patent Classification (IPC) o	r national classification and	IPC	
A61K 31/702, A61P 1/0	4, A6TP 1/12		
		•	
Applicant			
Biotie Therapies Oyj	et al		
This report is the international pre	liminary examination repor	t, established by this	s International Preliminary Examining
Authority under Article 35 and tra	insmitted to the applicant a	cording to Article 3	36.
2. This REPORT consists of a total of	of 6 sheets,	including this cover	sheet.
This report is also accompanied by	ANNEXES, comprising:	• •	
() () () () () () () () () ()	and to the International Bu	reau) a total of	sheets, as follows:
a. (sent to the applicant	locarintian claims and/or d	rawings which have	been amended and are the basis of this report
and/or sheets	containing rectifications au	thorized by this Aut	hority (see Rule 70.16 and Section 607 of the
Administrativ	e Instructions).		ty considers contain an amendment that goes
sheets which s beyond the dis	supersede earner sneets, ou sclosure in the international	application as filed	, as indicated in item 4 of Box No. I and the
Supplemental	Box.		
b. (sent to the Internation	: nal Bureau only) a total of (indicate type and n	umber of electronic carrier(s))
	containing	a sequence listing a	and/or tables related thereto, in computer
	indicated in the Suppleme	ntal Box Relating to	Sequence Listing (see Section 802 of the
Administrative Instruc		· · · · · · · · · · · · · · · · · · ·	
4. This report contains indications re		s: · .	
Box No. I Basis of	the report	,	
Box No. II Priority		,	
Box No. III Non-esta	ablishment of opinion with	regard to novelty, ir	nventive step and industrial applicability
	unity of invention		
Box No. V Reasone	d statement under Article 3 ility; citations and explanat	5(2) with regard to	novelty, inventive step or industrial
	documents cited	ions supporting sac	i sutomone
	defects in the international	application	
	observations on the internat		
Box, to			
Date of submission of the demand	I	Date of completion of	of this report
29.12.2003		29.09.2004	
Name and mailing address of the IPEA/SE	, , , , , , , , , , , , , , , , , , ,	Authorized officer	
Patent - och registreringsverket	$\gamma_{i} = \gamma_{i}$		
Box 5055 S-102 42 STOCKHOLM		Carolina Go	ómez Lagerlöf/EÖ
Facsimile No. +46 8 667 72 88			8 782 25 00
Form PCT/IPEA/409 (cover sheet) (Januar			



Box	No. I	Ва	sis of the report	
1.	otherwi	ise indic	the language, this report is based on the international application in the language that the language this item.	
		This rep	port is based on a translation from the original language into the following language is the language of a translation furnished for the purposes of:	,
			international search (under Rules 12.3 and 23.1(b))	
		H	publication of the international application (under Rule 12.4)	
			international preliminary examination (under Rules 55.2 and/or 55.3)	
2.	furnish	ed to th	the elements of the international application, this report is based on (replace receiving Office in response to an invitation under Article 14 are referred to innexed to this report):	cement sheets which have been this report as "originally filed"
	\square	the inte	emational application as originally filed/furnished	,
		the des	cription:	•
		pages		as originally filed/furnished
		pages*	received by this Authority on	·
		pages*	The second secon	
	П	the clai	ms:	
	-	pages		as originally filed/furnished
		pages*		ny statement) under Article 19
		pages*	received by this Authority on	
		pages*	received by this Authority on	
		the drav	wings:	n (n. 176 - 1-1-1
		pages		as originally filed/furnished
·		pages*	received by this Authority on received by this Authority on	
		pages*		T fair
		a seque	nce listing and/or any related table(s) - see Supplemental Box Relating to Sequenc	e Listing.
3.		The am	endments have resulted in the cancellation of:	
			the description, pages	
		$\overline{\Box}$	the claims, Nos.	
		币	the drawings, sheets/figs	<u>. </u>
•	• •	Ħ	the sequence listing (specify):	
			any table(s) related to the sequence listing (specify):	
4.		This re made, s	port has been established as if (some of) the amendments annexed to this report since they have been considered to go beyond the disclosure as filed, as indicated).	and listed below had not been in the Supplemental Box (Rule
		\Box	the description, pages	
		Ħ.	the claims, Nos.	<u>. </u>
	• •	II.	the drawings, sheets/figs	
		Ħ.	the sequence listing (specify):	<u> </u>
٠.			any table(s) related to the sequence listing (specify):	
⊈	If itom	4 applie	s, some or all of those sheets may be marked "superseded."	
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Internal application No.
PCT/FI2003/000528

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims Claims	1-51, 54-79	YES NO
Inventive step (IS)	Claims Claims	1-51, 54-79	YES NO
Industrial applicability (IA)	Claims Claims	1-51, 54-79	YES NO

2. Citations and explanations (Rule 70.7)

During the search the following documents were found:

- A WO0143751
- B WO0051644
- C WO0033854
- D WO9639190
- E US5217715

Document A discloses Helicobacter pylori-binding substances comprising oligosaccharides. The oligosaccharides are covered by the scope of claim 1 in the application.

Document B relates to compositions containing oligosaccharides for the treatment of conditions initiated or mediated by EPEC. The oligosaccharides are covered by the scope of claim 1 in the application.

Document C discloses compositions containing different oligosaccharides for the treatment of disorders of the digestive tract.

Document D discloses compositions containing oligosaccharides for the treatment of traveller's diarrhoea caused by ETEC.

Document E relates to oligosaccharides that can be useful in the treatment of disorders caused by pulmonary pathogenic bacteria.

Claims 1-9 and 11-31 in the application relate to a composition containing at least two compounds containing a pathogen inhibiting oligosaccharide sequence.

Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: $Box\ V$

Some of the oligosaccharide sequences are known and it is also known to use them in pharmaceutical compositions for the treatment of conditions caused by Helicobacter pylori (document A) or EPEC (document B).

The difference between the claimed compositions and the compositions known in the art is the number of compounds containing the oligosaccharide sequences.

However, document C shows pharmaceutical compositions containing different oligosaccharides that are useful in the treatment of disorders of the digestive tract.

It is considered obvious to a person skilled in the art to make a composition with at least two compounds containing different oligosaccharides, when it is known that these compounds have the desired activity and it is also known to mix different oligosaccharides in a pharmaceutical composition.

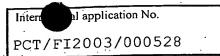
Claims 10, 32-51 and 54-79 relate to pharmaceutical compositions containing oligosaccharides, their use and different methods of administration.

It is known that compositions containing very similar oligosaccharides have the same use and are administered in the same way as the claimed compositions (see documents A and B).

It is considered obvious to a person skilled in the art to examine if an oligosaccharide can be used in a pharmaceutical composition for treatment of gastrointestinal infections, when it is known to use very similar oligosaccharides in pharmaceutical compositions with that use.

Documents D and E show the general state of the art.

Thus, claims 1-51 and 54-79 are considered to fulfil the requirement of novelty but not that of inventive step.



Box No. VI	Certain documents cited			
1 Certain p	ublished documents (Rule 70		· · · · · · · · · · · · · · · · · · ·	
· -	Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
	WO 02056893	25.07.2002	18.01.2002	19.01.2001
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· . ·	ten disclosures (Rule 70.9)	To Date of non-y	disolature	Date of written disclosure
· . ·	en disclosures (Rule 70.9) Kind of non-written disclosur	re Date of non-v	written disclosure nonth/year)	Date of written disclosure referring to non-written disclosure (day/month/year)
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PATENT COOPERATION TREATY

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REC'D 1 2 OCT 2004

INTERNATIONAL PRELIMINARY REPORT ON PATENTAR IMPO (Chapter II of the Patent Cooperation Treaty)

PCT

(PCT Article 36 and Rule 70)

A malianatia or agentia file reference		
Applicant's or agent's file reference	FOR FURTHER ACTION See F	orm PCT/IPEA/416
39909	International filing date (day/month/year	Priority date (day/month/year)
International application No.		28.06.2002
PCT/FI2003/000528	30.06.2003	28.00.2002
International Patent Classification (IPC) or		
A61K 31/702, A61P 1/0	4, A61P 1/12	
Applicant		
Biotie Therapies Oyj	et al	
	1:	h. this International Preliminary Evamining
This report is the international pre Authority under Article 35 and tre	Inminary examination report, established ansmitted to the applicant according to A	by this International Preliminary Examining rticle 36.
2. This REPORT consists of a total of	of 6 sheets, including this	cover sheet.
This report is also accompanied by	y ANNEXES, comprising:	
a. (sent to the applicant	and to the International Bureau) a total c	of sheets, as follows:
sheets of the o	description, claims and/or drawings which	h have been amended and are the basis of this report
and/or sheets	containing rectifications authorized by the Instructions).	is Authority (see Rule 70.16 and Section 607 of the
sheets which	supersede earlier sheets, but which this A	authority considers contain an amendment that goes
beyond the di Supplemental		s filed, as indicated in item 4 of Box No. I and the
b. (sent to the Internatio	onal Bureau only) a total of (indicate type	and number of electronic carrier(s))
	, containing a sequence li	isting and/or tables related thereto, in computer
readable form only, a Administrative Instru		ating to Sequence Listing (see Section 802 of the
4. This report contains indications re	elating to the following items:	
Box No. I Basis of	f the report	
Box No. II Priority		
Box No. III Non-est	tablishment of opinion with regard to nov	elty, inventive step and industrial applicability
Box No. IV Lack of	funity of invention	
Box No. V Reason applical	ed statement under Article 35(2) with reg bility; citations and explanations supporti	ard to novelty, inventive step or industrial ng such statement
	documents cited	·
Box No. VII Certain	defects in the international application	
Box No. VIII Certain	observations on the international applica	ation
	·	
Date of submission of the demand	Date of comp	letion of this report
29.12.2003	29.09.2	
Name and mailing address of the IPEA/S	E Authorized of	fficer
Patent- och registreringsverket Box 5055		•
S-102 42 STOCKHOLM		a Gómez Lagerlöf/EÖ
Facsimile No. +46 8 667 72 88 Form PCT/IPEA/409 (cover sheet) (Januar	Telephone No	o. +46 8 782 25 00

Box	No. I	Bas	sis of the report
1.	With	regard to	the language, this report is based on the international application in the language in which it was filed, unless eated under this item.
		This res	oort is based on a translation from the original language into the following language s the language of a translation furnished for the purposes of:
			international search (under Rules 12.3 and 23.1(b))
		H	publication of the international application (under Rule 12.4)
		H	international preliminary examination (under Rules 55.2 and/or 55.3)
2.	furnis	shed to th are not an	to the elements of the international application, this report is based on (replacement sheets which have been the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" internation under Article 14 are referred to in this report as "originally filed" internations.
	\boxtimes	the int	emational application as originally filed/furnished
		the de	scription: as originally filed/furnished
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			uence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
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l			the description, pages
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		لــا	any table(s) related to the sequence listing (specify):
4.		This made 70.20	report has been established as if (some of) the amendments annexed to this report and listed below had not been e, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule (c)).
1	•		the description, pages
			the claims, Nos.
1			the drawings, sheets/figs
		一	the sequence listing (specify):
			any table(s) related to the sequence listing (specify):
*	If i	item 4 app	olies, some or all of those sheets may be marked "superseded."

International application No.	•
PCT/1003/000528	

Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
The question	ns whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially ave not been examined in respect of:
	e entire international application
\(\sqrt{\sq}}\sqrt{\sq}}}}}}}}}}}}} \sqit{\sqrt{\sqrt{\sq}}}}}}}}} \end{\sqnt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sq}}}}}}}}}}} \end{\sqrt{\sqrt{\sqrt{\sq}\sqrt{\sqrt{\sq}}}}}}}}} \end{\sqnt{\sqrt{\sq}}}}}}}} \end{\sqnt{\sqnt{\sq}}}}}}} \end{\sqnt{\sqnt{\sq}\end{\sq}	aims Nos. 52-53
because	
⊠ ti	ne said international application, or the said claims Nos. 52-53 elate to the following subject matter which does not require an international preliminary examination (specify):
See or a meth	PCT Rule 67.1.(iv).: Methods for treatment of the human inimal body by surgery or therapy, as well as diagnostic ods.
	the description, claims or drawings (indicate particular elements below) or said claims Nos.
	are so unclear that no meaningful opinion could be formed (specify):
	·
	·
	are so inadequately supported
	the claims, or said claims Nos. by the description that no meaningful opinion could be formed.
	no international search report has been established for said claims Nos.
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:
	the written form has not been furnished
	does not comply with the standard
	the computer readable form has not been furnished
	does not comply with the standard does not comply with the standard does not comply with
	the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in the Annex C-bis of the Administrative Instructions.
	See Supplemental Box for further details.
-	

International application No.
PCT/T12003/000528

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

	Chataman	
- 1	Statement	l

Novelty (N)	Claims Claims	1-51, 54-79	YES NO
Inventive step (IS)	Claims Claims	1-51, 54-79	YES NO
Industrial applicability (IA)	Claims Claims	1-51, 54-79	YES NO

2. Citations and explanations (Rule 70.7)

During the search the following documents were found:

- A W00143751
- B W00051644
- C W00033854
- D W09639190
- E US5217715

Document A discloses Helicobacter pylori-binding substances comprising oligosaccharides. The oligosaccharides are covered by the scope of claim 1 in the application.

Document B relates to compositions containing oligosaccharides for the treatment of conditions initiated or mediated by EPEC. The oligosaccharides are covered by the scope of claim 1 in the application.

Document C discloses compositions containing different oligosaccharides for the treatment of disorders of the digestive tract.

Document D discloses compositions containing oligosaccharides for the treatment of traveller's diarrhoea caused by ETEC.

Document E relates to oligosaccharides that can be useful in the treatment of disorders caused by pulmonary pathogenic bacteria.

Claims 1-9 and 11-31 in the application relate to a composition containing at least two compounds containing a pathogen inhibiting oligosaccharide sequence.

.../...

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: Box V

Some of the oligosaccharide sequences are known and it is also known to use them in pharmaceutical compositions for the treatment of conditions caused by Helicobacter pylori (document A) or EPEC (document B).

The difference between the claimed compositions and the compositions known in the art is the number of compounds containing the oligosaccharide sequences.

However, document C shows pharmaceutical compositions containing different oligosaccharides that are useful in the treatment of disorders of the digestive tract.

It is considered obvious to a person skilled in the art to make a composition with at least two compounds containing different oligosaccharides, when it is known that these compounds have the desired activity and it is also known to mix different oligosaccharides in a pharmaceutical composition.

Claims 10, 32-51 and 54-79 relate to pharmaceutical compositions containing oligosaccharides, their use and different methods of administration.

It is known that compositions containing very similar oligosaccharides have the same use and are administered in the same way as the claimed compositions (see documents A and B).

It is considered obvious to a person skilled in the art to examine if an oligosaccharide can be used in a pharmaceutical composition for treatment of gastrointestinal infections, when it is known to use very similar oligosaccharides in pharmaceutical compositions with that use.

Documents D and E show the general state of the art.

Thus, claims 1-51 and 54-79 are considered to fulfil the requirement of novelty but not that of inventive step.



International application No.
PCT/100003/000528

Box No. VI	Certain documents cited			
1. Certain	published documents (Rule 70).10)		المستوام المتاسع مداد الماسا
6 1	Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
	WO 02056893	25.07.2002	18.01.2002	19.01.2001
	.•	· ·	·	
-				
	. •			
-				
2. Non-	written disclosures (Rule 70.9)			Date of written disclosure referring to non-written disclosur
	Kind of non-written disclo	osure Date of non- (day/n	written disclosure nonth/year)	(day/month/year)
		·		
. <u>.</u>				
	•			
. .				



A. CLASSIFICATION OF SUBJECT MATTER

IPC7: A61K 31/702, A61P 1/04, A61P 1/12
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: A61K, A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI DATA, CHEM. ABS DATA, EMBASE, MEDLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

ı			
ı			
ı	C	Citation of document with indication where appropriate of the relevant passages	Relevant to claim No.
1	Category*	Citation of document, with indication, where appropriate, of the relevant passages	Itchevante to claim 140.

P,X	WO 02056893 A1 (CARBION OY), 25 July 2002 (25.07.02)	1-79
х	WO 0143751 A1 (A+SCIENCE INVEST AB), 21 June 2001 (21.06.01)	10,32-79
Y		1-9,11-31
X	WO 0051644 A1 (THE GOVERNORS OF THE UNIVERSITY OF ALBERTA), 8 Sept 2000 (08.09.00)	10,32-79
Y		1-9,11-31
		\

X	Further documents are listed in the continuation of Box C.		See patent family annex.
•	Special categories of cited documents:	"T"	later document published after the international filing date or priority
"A"	document defining the general state of the art which is not considered to be of particular relevance		date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E"	earlier application or patent but published on or after the international	'X'	document of particular relevance: the claimed invention cannot be

document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other

special reason (as specified) document referring to an oral disclosure, use, exhibition or other

document published prior to the international filing date but later than the priority date claimed

- e considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of mailing of the international search report Date of the actual completion of the international search 08-10-2003 7 October 2003 Name and mailing address of the ISA/ Authorized officer Swedish Patent Office Box 5055, S-102 42 STOCKHOLM Carolina Gómez Lagerlöf/EÖ Telephone No. +46 8 782 25 00 Facsimile No. +46 8 666 02 86



ategory*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 0033854 A1 (N.V. NUTRICIA), 15 June 2000 (15.06.00)	1-9,11-31
		
A	WO 9639190 A1 (SYNSORB BIOTECH, INC.), 12 December 1996 (12.12.96)	1-79
A	US 5217715 A (HOWARD C. KRIVAN ET AL), 8 June 1993 (08.06.93)	1-79
	·	
		•



Internal application No. PCT/FI03/00528

Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This inter	national search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
I. 🔀	Claims Nos.: 52-53 because they relate to subject matter not required to be searched by this Authority, namely: see next sheet
2.	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet) ernational Searching Authority found multiple inventions in this international application, as follows:
1.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remar	k on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.



Claims 52-53 relate to methods of treatment of the human or animal body by surgery or by therapy or diagnostic methods practised on the human or animal body (PCT Rule 39.1(iv)). Nevertheless, a search has been executed for these claims. The search has been based on the alleged effects of the compounds or compositions.

INTERNATION EARCH REPORT Information on purent family members

Internal al application No. 06/09/03 PCT/FI 03/00528

	nt document search report		Publication date		Patent family member(s)		Publication date
10	02056893	A1	25/07/02	FI	4998		19/07/01
				FI	20010118	A,V 	20/07/02
10	0143751	A1	21/06/01	AU	2418801		25/06/01
				CA	2392766		21/06/01
				CN	1411376		16/04/03
•				CZ	20021989		16/10/02
				EE	200200312		16/06/03
				EP	1237558		11/09/02
				HU	0204243		28/03/03
				JP		Ţ	20/05/03
				NO	20022890		15/08/02
				SE	9904581		00/00/00
				SK	8152002 	A 	06/11/02
10	0051644	A1	08/09/00	AU	2899500	A	21/09/00
	· · ·		-	CA	2359754		08/09/00
				EP	1159010		05/12/01
				US	6291435	В	18/09/01
- 0	0033854	A1	15/06/00	UA	1896600	A	26/06/00
-		.=		CA	2353544		15/06/00
				EP	1137424		04/10/01
				JP	2002531510	T	24/09/02
				NL	1010770	C	00/00/00
 0	9639190	A1	12/12/96	AU	713668	В	09/12/99
_				AU	4873296		24/12/96
				CA	2210193		12/12/96
				EP	0831914	A	01/04/98
				IL	117655	Α	31/08/00
				JP	11506458	T	08/06/99
				NZ	302632		29/11/99
				NZ	337148		23/02/01
				TW	474814		00/00/00
				US	5627163		06/05/97
				ZA	9602847	A	24/02/97
is	5217715	Α	08/06/93	US	5225330	A	06/07/93
-			-	US	5386027	Α	31/01/95
				US	5389521		14/02/95
				US	5529904	A	25/06/96